

## ABSTRACT OF THE DISCLOSURE

In a specified pattern detection apparatus, a first filter detects a partial image included in a specified pattern in input image data, and a memory device stores bi-level data on the existence of the partial image based on output signals of said first filter. Then, a detector detects the specified pattern from the bi-level data stored in said memory device. In a different way, in a specified pattern detection apparatus, a first resolution converter converts input image data to image data of first resolution. A processor performs a predetermined processing on the image data of first resolution, and a second resolution converter converts the processed image data of first resolution to image data of second resolution lower than the first resolution. Then, a detector detects a specified pattern based on the image data of second resolution.